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NOTICE OF ALLOWANCE AND FEE(S) DUE

24737

7590

10/07/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

KOZIOL, STEPHEN R

ART UNIT PAPER NUMBER

2624

DATE MAILED: 10/07/2009

APPLICATION NO. FILING DATE FIRST NAM		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,654	05/09/2006	Maxim Fradkin	FR030141US1	1782

TITLE OF INVENTION: THREE-DIMENSIONAL SEGMENTATION USING DEFORMABLE SURFACES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence includired below or directed oth tions.	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m orres	naintenance fees w pondence address;	vill be and/or	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
24737 PHILIPS INTE P.O. BOX 3001 BRIARCLIFF M	^{/2009} DPERTY & STAN	ANDARDS		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR		ATTORNEY DOCKET		RNEY DOCKET NO.	O. CONFIRMATION NO.
10/578,654 05/09/2006 TITLE OF INVENTION: THREE-DIMENSIONAL SEGMENTATION							1782	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional EXAM	NO IINER	\$1510 ART UNIT	\$300 CLASS-SUBCLASS		\$0]		\$1810	01/07/2010
KOZIOL, S	TEPHEN R	2624	382-154000					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form ed. Use of a Customer A TO BE PRINTED ON "	data will appear on th	single or a attor Il be p or typ he pag an a	ely, e firm (having as a gent) and the namely or agents. If orinted. e) ttent. If an assign assignment.	membes of uno nam	p to le is 3dentified below, the do	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	orporati	ion or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
	s SMALL ENTITY statu	ıs. See 37 CFR 1.27.			<u> </u>		ΓΙΤΥ status. See 37 CF	·=· · ·
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	ne applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature			Date					
Typed or printed name			Registration No					
an application Confident	tiality is governed by 35 d application form to the ions for reducing this but Virginia 22313-1450. DC	ILS C 122 and 37 CFR	1.14 This collection i	s esti	imated to take 12 i	miniite	s to complete includin	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/578,654	10/578,654 05/09/2006 Maxim Fradkin		FR030141US1	1782	
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PHILIPS INTEL	LECTUAL PROPER	KOZIOL, STEPHEN R			
P.O. BOX 3001		ART UNIT	PAPER NUMBER		
BRIARCLIFF MA	NOR, NY 10510		2624		
			DATE MAILED: 10/07/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 406 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 406 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/578,654	FRADKIN ET AL.					
Notice of Allowability	Examiner	Art Unit					
	STEPHEN R. KOZIOL	2624					
	STEPHEN R. KOZIOL	2024					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commun IGHTS. This application is suited.	his application. If not included ication will be mailed in due course. THIS					
1. This communication is responsive to <u>07/02/2009</u> .							
2. The allowed claim(s) is/are <u>1-14</u> .							
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received. e been received in Application	No					
Copies of the certified copies of the priority do	cuments have been received i	n this national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Sur						
3. Information Disclosure Statements (PTO/SB/08),	Paper No./M 7.	ail Date mendment/Comment					
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for Allowance					
of Biological Material 9. ☐ Other							
/Stephen R Koziol/							
Examiner, Art Unit 2624							

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Reasons for Allowance

- 1. Amendments and Remarks filed 02 July 2009 have been entered and considered and are found convincing. Applicants have amended independent claim 1 in accordance with examiner's suggestion in the previous Office action to overcome the 35 U.S.C. §112 ¶2 rejection. Also, Applicants' specification provides support for a "computer-readable medium" in at least page 12 lines 18-22. Furthermore, the ordinarily-skilled artisan would readily appreciate how to use the claimed "computer-readable medium" in accordance with claim 1. Therefore, the previously outstanding 35 U.S.C. §112 ¶1 rejections are overcome. No outstanding objections or rejections remain.
- 2. Claims 1-14 are allowed. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to fairly teach or suggest the limitations of: *automatic* mapping a 3-D Surface Model onto the surface of an object of interest in a 3-D image, for estimating a model-based 3-D segmentation surface, comprising visualizing means (60) and further comprising: means of interactive adaptation (20) of the segmentation surface to the actual surface of the object of interest including: means of interactive selection (40) of a 2D data plane (DP) that intersects the 3-D segmentation surface along a 2-D Model Curve (MC), and means of further *automatically adapting* the 3D segmentation surface within a neighborhood of the interactively adapted Aberrant Curve (emphasis added). It is the *automated nature* of the present claimed invention combined with use of the Aberrant Curve of the Model Curve that helps distinguish over the cited prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Koziol whose telephone number is (571) 270-1844. The examiner can normally be reached on Monday - Friday 9:00 - 5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samir Ahmed can be reached at (571) 272-7413. Customer Service can be reached at (571) 272-2600. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/srk/
30 September 2009

/CHARLES KIM/
Primary Examiner, Art Unit 2624
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